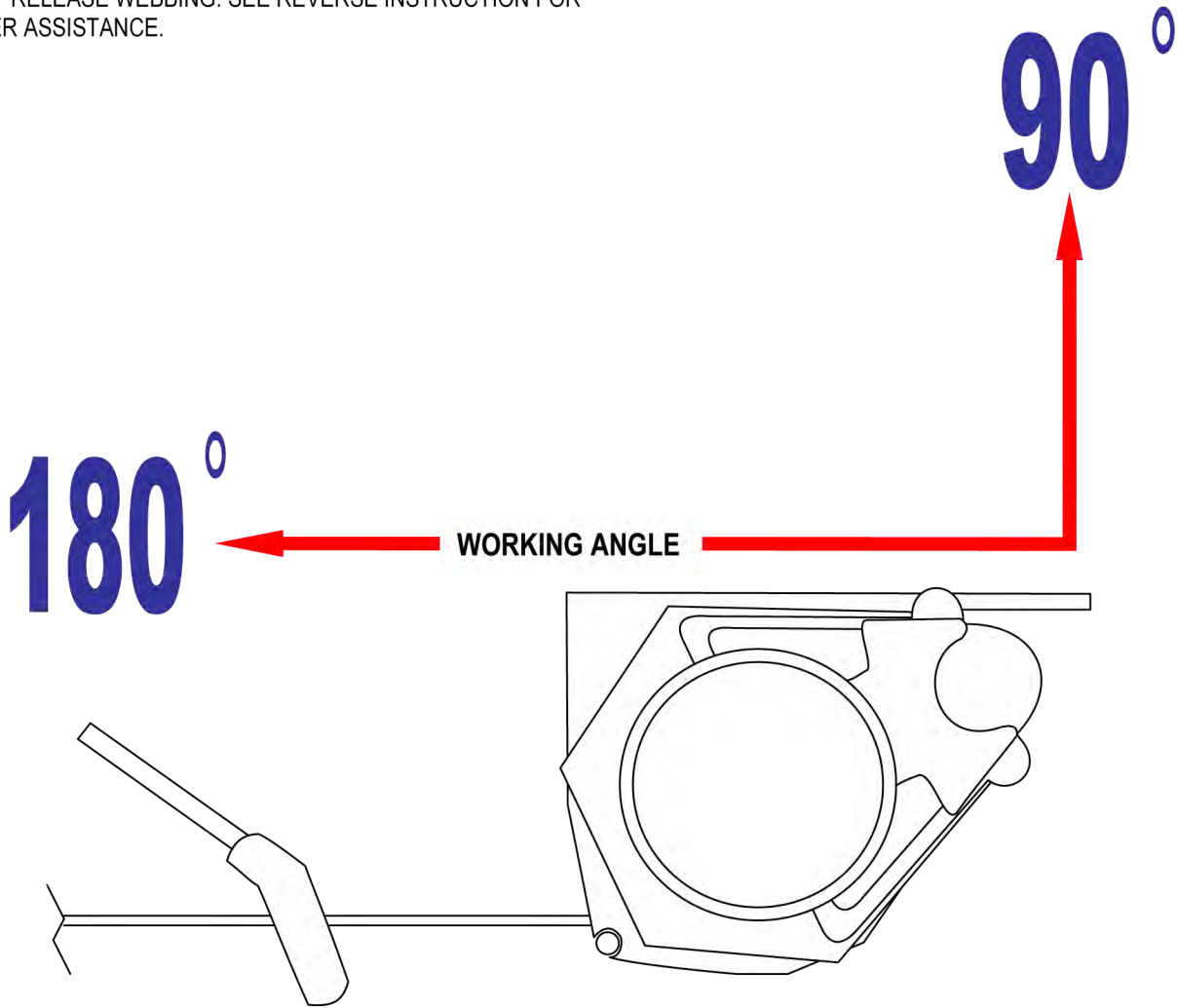




## INFORMATION ON UNLOCKING THE RETRACTOR

### 180-180 RETRACTOR ANGLE

- POSITION THE RETRACTOR AS SHOWN IN THE DIAGRAM.
- GENTLY RELEASE WEBBING. SEE REVERSE INSTRUCTION FOR FURTHER ASSISTANCE.



# INFORMATION ON UNLOCKING THE RETRACTOR

## RETRACTOR ANGLES

- Klippan retractors are designed to operate on specific angles or positions. If not positioned correctly the retractor will lock. The below information refers to the Klippan ELR - Emergency Locking Retractor also known as Inertia retractors.
- To determine the retractors operating angle refer to the explanation of the label that appears on the side of the retractor as shown in Figure 1.
- The first angle 'A' is measured from the spring cassette side, starting from the horizontal plane (0°) up as shown in Figure 2 & Examples 1, 2 & 3.
- The second Angle 'B' is measured on the mounting side of the retractor starting from the horizontal plane (0°) up as shown in Figure 2 & Examples 1, 2 & 3. These are the angles or positions that the retractor needs to be mounted on in the vehicle.
- Positioning the retractor with in +/- 2° of its operating angle ensures optimum performance.
- Klippan ELR retractors are dual sensitive which means they are webbing sensitive to rapid webbing withdrawal and angle changes. Sudden vehicle movement in any direction will also cause the retractor to lock.

## EXPLANATION OF LABEL ON SIDE OF RETRACTOR

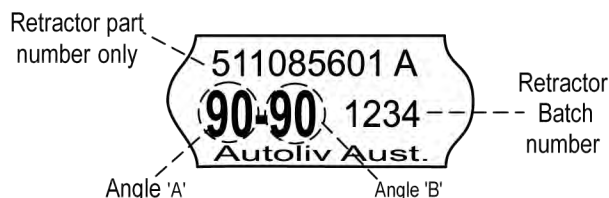


FIGURE 1

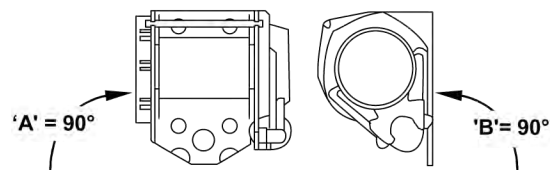
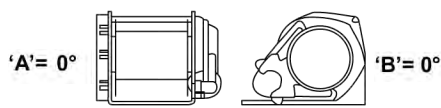
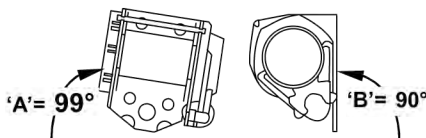


FIGURE 2

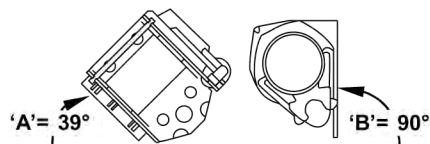
### EXAMPLE 1



### EXAMPLE 2



### EXAMPLE 3



## UNLOCKING THE RETRACTOR

1. To unlock the retractor, position the retractor and maintain its correct working angle throughout this procedure. For the best results either place the retractor in a bench vice or on the side of a table, bench or cabinet. This will ensure stability through out the following process.
2. Once positioned correctly the Ball sensor (Fig.3 item 2 & Fig.4) should be at its lowest position inside the Base Sensor (Fig.3 item 1 & Fig.4) allowing the Lever Lock (Fig.3 item 3) to fall, disengaging the Locking wheel (Fig.3 item 4).
3. If the Lever lock (Fig.3 item 3) is still engaged while the retractor is positioned correctly, roll the webbing in a little further. This should unlock the internal mechanism and allow the Lever lock (Fig.3 item 3) to fall.
4. Slowly release the webbing. Repeat these steps if necessary, especially if the webbing is fully wound up on the spool.
5. Place the Yellow Plastic Limit Cam (Fig.3 item 5) back into position to allow for easier installation.

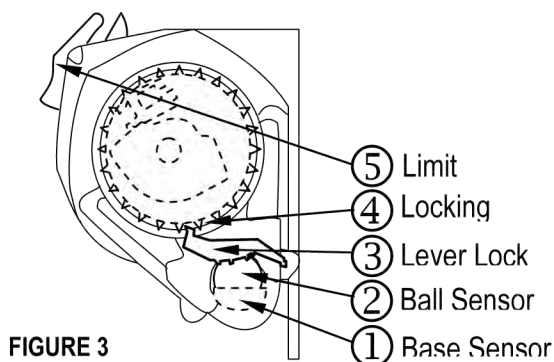


FIGURE 3

Ball aligned  
(UNLOCKED  
POSITION)



Ball misaligned  
(LOCKED  
POSITION)



FIGURE 4